

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) ~~A system for software diagnosis, which diagnoses an un-debugged software having a plurality of program segments related to at least one event, comprising:~~

~~an event ratio calculating module, which is used to calculate a production weight of the event based on the ratios of the program segments in the un-debugged software and the relation of the program segments with the event; and~~

~~an event generating module, which is used to generate the event based on the production weight for diagnosing the un-debugged software.~~

A software diagnosing system executing on a computer, the software diagnosing system diagnosing an un-debugged software having a plurality of program segments related to at least one event, the software diagnosing system comprising:

an event ratio-calculating module for calculating a production weight of each event basing on the ratio of each program segment to the un-debugged software and on the ratio of each event with respect to each program segment; and

an event-generating module for generating events according to their respective production weights to diagnose the un-debugged software, wherein each of events is randomly selected from a set of events.

2. (Currently Amended) ~~A system for software diagnosis of claim 1, The software diagnosing system executing on a computer as described in claim 1, wherein the ratios of the program segments in the software are the ratio of each program segment to the un-debugged software~~ is automatically determined and generated by the event ratio-calculating module.

3. (Currently Amended) ~~A system for software diagnosis of claim 1, The software diagnosing system executing on a computer as described in claim 1, wherein the ratios of the program segments in the software are the ratio of each program segment to the un-debugged software~~ is determined and input by a user.

4. (Cancelled)

5. (Currently Amended) ~~A system for software diagnosis of claim 4, The software diagnosing system executing on a computer as described in claim 1, wherein the ratio of the event in the related program segments the ratio of each event with respect to each program segment~~ is automatically determined and generated by the event ratio-calculating module.

6. (Currently Amended) ~~A system for software diagnosis of claim 4, The software diagnosing system executing on a computer as~~

described in claim 1, wherein the ratio of the event in the related program segments the ratio of each event with respect to each program segment is determined and input by a user.

7. (Currently Amended) A system for software diagnosis of claim 1, The software diagnosing system executing on a computer as described in claim 1, wherein the un-debugged software is applied on an operation system simulator.

8. (Cancelled)

9. (Currently Amended) A system for software diagnosis of claim 1, The software diagnosing system executing on a computer as described in claim 1, further comprising:

a diagnosis result-recording module, which generates a diagnosis report based basing on the diagnosis result of the un-debugged software.

10. (Currently Amended) A method for software diagnosis, which diagnoses an un-debugged software having a plurality of program segments related to at least one event, comprising:

Calculating a production weight of the event based on the ratios of the program segments in the un-debugged software and the relation of the program segments with the event; and

~~Generating the event based on the production weight for diagnosing the un-debugged software.~~

A software diagnosing method executing on a computer to diagnose an un-debugged software having a plurality of program segments related to at least one event, the software diagnosing method comprising the steps of:

calculating a production weight of each event basing on the ratio of each program segment to the un-debugged software and on the ratio of each event with respect to each program segment; and generating events according to their respective production weights to diagnose the un-debugged software, wherein each of events is randomly selected from a set of events.

11. (Currently Amended) ~~A method for software diagnosis of claim 10, The software diagnosing method executing on a computer as described in claim 10, wherein the ratios of the program segments in the software are the ratio of each program segment to the un-debugged software is automatically determined and generated by the event ratio-calculating module.~~

12. (Currently Amended) ~~A method for software diagnosis of claim 10, The software diagnosing method executing on a computer as described in claim 10, wherein the ratios of the program segments~~

~~in the software are the ratio of each program segment to the un-debugged software is determined and input by a user.~~

13. (Cancelled)

14. (Currently Amended) ~~A method for software diagnosis of claim 13, The software diagnosing method executing on a computer as described in claim 10, wherein the ratio of the event in the related program segments the ratio of each event with respect to each program segment is automatically determined and generated by an event ratio-calculating module.~~

15. (Currently Amended) ~~A method for software diagnosis of claim 13, The software diagnosing method executing on a computer as described in claim 10, wherein the ratio of the event in the related program segments the ratio of each event with respect to each program segment is determined and input by a user.~~

16. (Currently Amended) ~~A method for software diagnosis of claim 10, The software diagnosing method executing on a computer as described in claim 10, wherein the software is applied on an operating system simulator.~~

17. (Cancelled)

18. (Currently Amended) ~~A method for software diagnosis of~~
~~claim 10, The software diagnosing method executing on a computer as~~
~~described in claim 10, further comprising:~~

generating a diagnosis report based on the diagnose result of
the un-debugged software.